

(Time: 3 Hrs)

Marks: 80

N.B. : 1. Question no. 1 is **compulsory**.

2. Solve any **Three** questions out of remaining **Five** questions.

Qu-1 Attempt the following.

- a) Event Condition Action (ECA) model (Triggers) in SQL with suitable example. 5
- b) Explain "Write Ahead Logging." 5
- c) Explain "Object Query Language (OQL)" in short. 5
- d) OLAP vs OLTP 5

- Qu-2
- a) State the role of metadata and classification of Metadata for Data Warehouse. 10
 - b) Explain Stored Procedures in SQL with suitable example. 10

- Qu-3
- a) Explain Factless Fact Table with suitable example. 10
 - b) Explain Mandatory Access Control and Role-Based Access Control. 10

- Qu-4
- a) Explain Star Schema with suitable example. 10
 - b) Explain ARIES with suitable example. 10

- Qu-5
- a) Explain Dynamic Multilevel Indexes Using B+-Trees. 10
 - b) Explain Query Processing in Distributed Databases. 10

Qu-6 Write short note on

- a) Single-Level Ordered Indexes. 5
- b) Concurrency Control in Distributed Databases. 5
- c) Data Marts. 5
- d) ROLAP 5

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